



US007902348B2

(12) **United States Patent**
O'Shea et al.

(10) **Patent No.:** **US 7,902,348 B2**
(45) **Date of Patent:** **Mar. 8, 2011**

(54) **JANUS FAMILY KINASES AND IDENTIFICATION OF IMMUNE MODULATORS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **12/354,668**

(22) Filed: **Jan. 15, 2009**

(65) **Prior Publication Data**

US 2009/0137787 A1 May 28, 2009

Related U.S. Application Data

(60) Division of application No. 11/195,197, filed on Aug. 1, 2005, now Pat. No. 7,488,808, which is a continuation of application No. 08/373,934, filed on Jan. 13, 1995, now Pat. No. 7,070,972.

(51) **Int. Cl.**
C12N 15/52 (2006.01)
C12N 15/12 (2006.01)

(52) **U.S. Cl.** **536/23.2**

(58) **Field of Classification Search** None
See application file for complete search history.

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(57) **ABSTRACT**

An isolated polynucleotide encodes JAK-3 protein. JAK-3 protein is a protein tyrosine kinase having a molecular weight of approximately 125 kDa which has tandem non-identical catalytic domains, lacks SH2 or SH3 domains, and is expressed in NK cells and stimulated or transformed T cells, but not in resting T cells. The protein itself and antibodies to this protein are also presented. Further, methods of identifying therapeutic agents for modulating the immune system make use of the foregoing.

2 Claims, No Drawings